

## SECTION 1019 -- SEALING COMPOUNDS

### 1019.01 -- Description

The sealing compounds covered are elastomeric single-component compounds.

### 1019.02 -- Material Characteristics

1. Type I (self-leveling) is a compound which has sufficient flow to give a smooth, level surface when applied in a horizontal joint at temperatures between 39°F and 122°F.

2. Type II (non-sag) is a compound which allows application in vertical joints without sagging at temperatures between 39°F and 122°F.

3. The elastomeric single-component compound shall conform to the requirements of Federal Specification TT-S-230C "Sealing Compound, Elastomeric Type, Single Component".

4. Joint sealing material shall conform to the requirements in Table 1019.01, and documents shall be submitted that confirm the properties in Table 1019.01.

**Table 1019.01**

| Joint Sealing Compound Requirement          |               |             |
|---|---------------|-------------|
| As Supplied:                                |               |             |
| Specific Gravity                            | 1.010-1.515   | ASTM D 792  |
| Work Time, minutes                          | 10            |             |
| Tack-Free Time, at 77°F, days               | 20-360        |             |
| Cure Time, at 77°F, days                    | 14 Max.       |             |
| Full Adhesion, days                         | 21 Max.       |             |
| As Cured - at 77 + 4°F and 45-55% RH:       |               |             |
| Elongation, percent                         | 800 % Min.    | ASTM D 412  |
| Durometer Hardness                          |               |             |
| Non-sag, Shore A                            | 10-25         | ASTM D 2240 |
| Self-leveling, Shore 00                     | 40 Min.       | ASTM D 2240 |
| Joint Movement Capability, percent          | +100/-50 Min. | ASTM C 719  |
| Tensile Stress, psi<br>(at 150% elongation) | 45 Max.       | ASTM D 412  |

5. Sampling and testing of sealing compounds shall be in accordance with Federal Specification TT-S-230C for single-component sealing compounds.

### 1019.03 -- Procedures

1. Single-Component Sealing Compounds include polysulfides and polyurethanes.

2. The single-component sealing compounds (Type I or Type II) may also be used to seal joints in all types of structures where some movement is expected and where a tight seal against dust, dirt, wind, and water is required.

### 1019.04 -- Acceptance Requirements

1. Sealing compounds on the NDR Approved Products List are acceptable.

2. Sealing compounds that are not on the NDR Approved Products List may be accepted based on a manufacturer's certificate of compliance.